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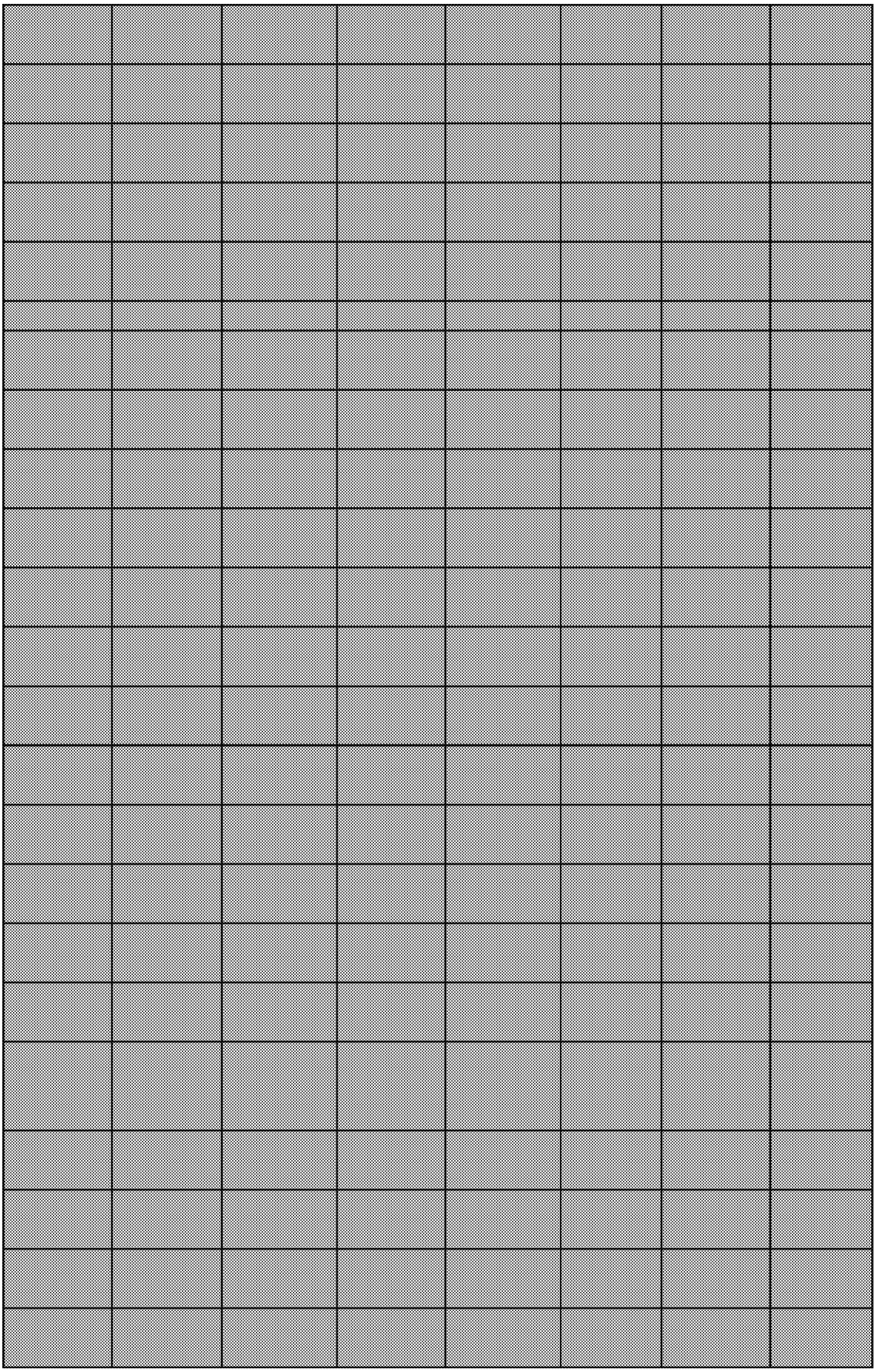

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Pulmonary fibrosis is one of the most severe consequences of exposure to paraquat, an herbicide that causes rapid alveo
PURPOSE: Evidence supports the immune system activity accompanying glaucomatous neurodegeneration. This study ai
Plant cells frequently encounter oxidative stress, leading to oxidative damage and inactivation of proteins. We have rece
G11778A in the subunit ND4 gene of NADH dehydrogenase complex is the most common primary mutation found in Leb
At harvest, sunflower (Helianthus annuus L.) seeds are dormant and unable to germinate at temperatures below 15 degr
Metallothionein (MT), a ubiquitous family of low-molecular weight metal-binding proteins, comprises 30% cysteine resid
Paraquat (PQ) (1, 1'-dimethyl-4, 4'-bipyridinium dichloride), a widely used herbicide, has been suggested as a potential e
Studies suggest that disturbances of amino acid metabolism and cellular iron regulation are important mechanisms unde
Experiments with isolated mitochondria have established that these organelles are pivotal intracellular sources of superc
Stress-induced generation of reactive oxygen species (ROS) leads to lowering of the biochemical yield of photosynthesis i
The beta-carboline alkaloids found in medical plants and in a variety of foods, beverages and cigarette smoke have a rang
The mitochondrial succinate dehydrogenase (SDH) is an essential component of the electron transport chain and of the t
The aim of this investigation was to test the reactions of the hepatopancreatic digestive cells of blue mussels (Mytilus ed
Targeting of the antioxidant enzyme catalase to endothelial cells protects against vascular oxidative stress induced by hy
To understand the physiological function of glutaredoxin, a thiotransferase catalyzing the reduction of mixed disulfides o
Carcinogenesis by vanadium is thought to occur through induction of DNA-double-strand breaks (DSBs) but its mechanisr
Oxidative damage contributes to retinal cell death in patients with age-related macular degeneration or retinitis pigment
Mitochondria, which are a major source of intracellular reactive oxygen species (ROS), are extremely vulnerable to oxida
Interruption of insulin-like growth factor I (IGF-1) signaling has been demonstrated to prolong life span although the und
Salt Overly Sensitive 1 (SOS1), a plasma membrane Na+/H+ antiporter in Arabidopsis, is a salt tolerance determinant cruc

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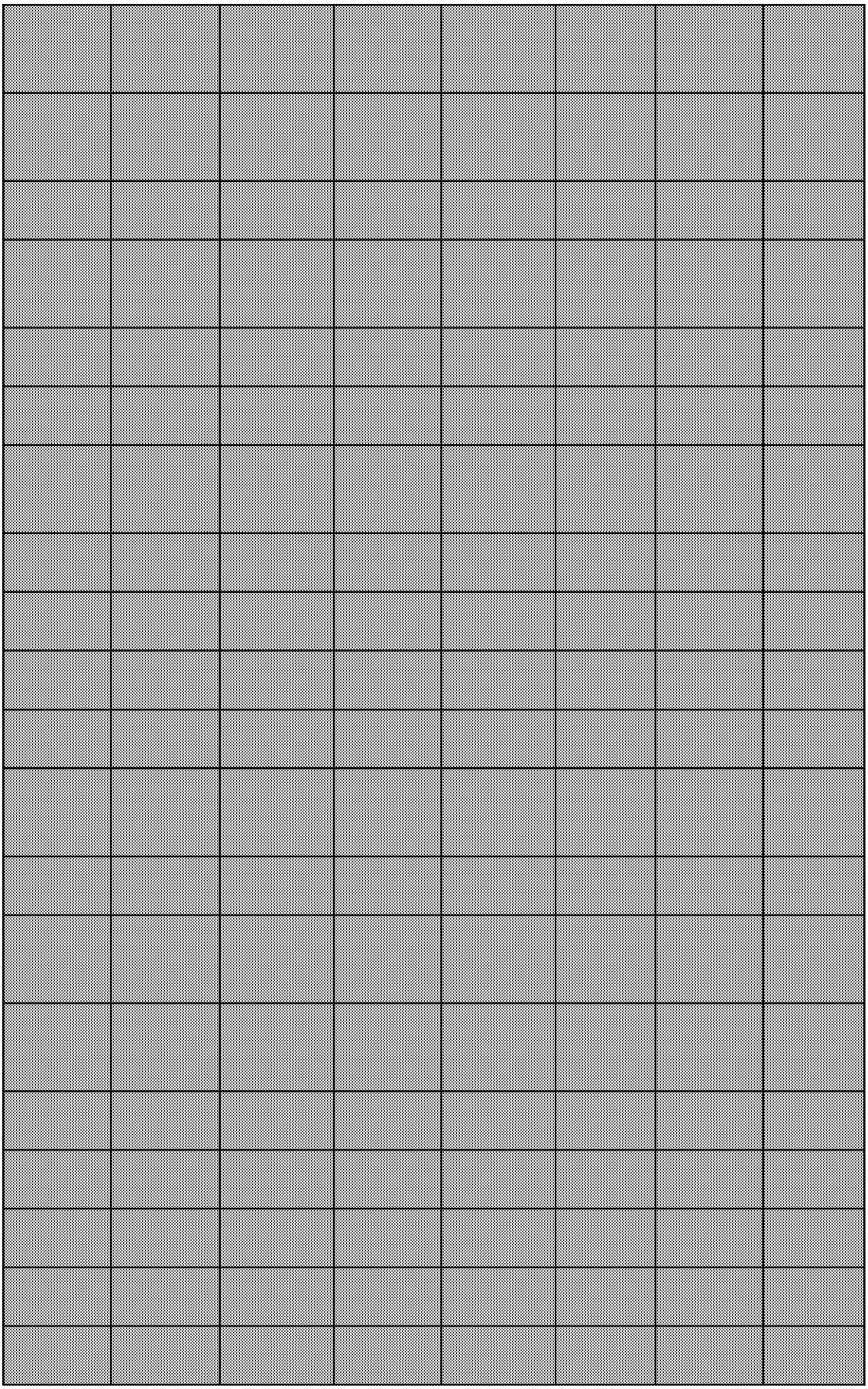

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Paraquat (PQ) is a highly toxic herbicide that is used in most of the countries without restriction. The cytotoxic effect of P
Paraquat (1,1'-dimethyl-4,4'-bipyridinium dichloride) is widely used as a redox cycler to stimulate superoxide production
Superoxide anion generation plays an important role in the development of paraquat toxicity. Although superoxide dism
The PGC1 transcriptional coactivators are major regulators of several crucial aspects of energy metabolism. PGC1alpha c
The objective of this in vitro study was to use a mouse embryonic stem (mES) cell model to better understand pesticide i
G(M1)-gangliosidosis is an autosomal recessive lysosomal lipid storage disorder, caused by mutations of the lysosomal b
The primary biochemical reaction of purple acid phosphatases (PAP) is to catalyze the hydrolysis of phosphate esters and
The PGC1 transcriptional coactivators are major regulators of several crucial aspects of energy metabolism. PGC1alpha c
In protein therapy, it is important for exogenous protein to be delivered into the target subcellular localization. To transd
The basidiomycete Moniliophthora perniciosa causes Witches' Broom disease in Theobroma cacao. We studied the influ
Oxidative stress has been implicated in allergic responses. SHP-1 is a target of oxidants and has been reported as a negat
The formation of the proamniotic cavity is the first indication of programmed cell death associated to a morphogenetic p
Oxidative stress and inflammation are implicated in the pathogenesis of many age-related diseases. Stress-induced overp
OBJECTIVE: Cilostazol, a selective inhibitor of PDE3, has a protective effect on endothelium after ischemic vascular damag
UCP2, an inner membrane mitochondrial protein, has been implicated in bioenergetics and reactive oxygen species (ROS
Accumulation of misfolded oxidant-damaged proteins is characteristic of many diseases and aging. To understand how c
We hypothesize that neurons have protective mechanisms against adverse local conditions that improve the chances of
It is known that expression of the Agrobacterium rhizogenes rolC gene in transformed plant cells causes defense-like rea
Silver ions have been widely used as disinfectants that inhibit bacterial growth by inhibiting the essential enzymatic funct
Manganese-dependent superoxide dismutase (SOD2) serves as the primary defense against mitochondrial superoxide, a
Aging is accompanied by an accumulation of oxidized proteins and cross-linked modified protein material. The intracellul
Resveratrol, a naturally occurring polyphenol, exhibits antioxidant, antiaging, and anticancer activity. Resveratrol has also

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